ABSTRACT

The present invention relates to a method of vaccinating a subject comprising delivering a chimeric yellow fever 17D strain vector expressing an envelope protein gene product of a heterologous flavivirus to the epidermal compartment or the intradermal compartment of the subject's skin. The invention encompasses vaccine compositions comprising the chimeric yellow fever viruses expressing an envelope protein gene product of a heterologous flavivirus. The compositions of the invention result in an enhanced therapeutic efficacy, *e.g.*, enhanced protective immune response as they enhance the presentation and availability of the chimeric vaccine to the targeted compartment of the subject's skin.